

Amendments to the Claims:

18. (Currently Amended) An optical path-to-sight link comprising:

a transmitter comprising a source generating a collimated light beam, said transmitter being pointed in a general direction of a receiver;

a moveable micromirror in a path of said collimated light beam for reflecting said collimated light beam to impinge on a photodetector in said receiver;

a controller responsive to the position of the collimated light in the receiver for controlling orientation of said micromirror so that said [collimated] collimated light beam is reflected onto said photodetector; and

a control loop coupled between said controller and said receiver for providing a control signal to said controller for controlling said micromirror orientation, said control loop being independent of said optical link.

23. (Currently Amended) In an optical path-to-path sight link, an optical transmitter comprising:

a source generating a collimated light beam within said transmitter, said collimated light beam having a path directed outside of said transmitter;

a moveable micromirror coupled in said path between said source and an exit point for said collimated light beam; and

a controller for controlling orientation of said micromirror so that in use in an optical link said collimated light beam is reflected by said micromirror onto a photodetector of a receiver said controller being responsive to an external signal indicative of said receiver in response to the position of the collimated light in the receiver and transmitted along a control link that is separate from said optical link and indicative of said collimated light beam impinging on said photodetector.

Listing of the Claims:

1. (Cancelled)
2. (Previously Presented) The optical link in accordance with Claim 18, wherein said micromirror comprises a single two axis rotatable mirror capable of reflecting light in any orientation within a predetermined field of view.
3. (Previously Presented) The optical link in accordance with Claim 18, wherein said micromirror comprises a plurality of mirrors, each capable of being rotated in a single axis, capable of reflecting light in any orientation within a predetermined field of view.
4. (Cancelled)
5. (Previously Presented) The optical link in accordance with Claim 18 wherein said micromirror is fabricated from silicon.
6. (Previously Presented) The optical link in accordance with Claim 18 wherein said micromirror is fabricated from metal.
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. Cancelled)
13. (Cancelled)
14. (Cancelled)

15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Currently Amended) An optical path-to-sight link comprising:
  - a transmitter comprising a source generating a collimated light beam, said transmitter being pointed in a general direction of a receiver;
  - a moveable micromirror in a path of said collimated light beam for reflecting said collimated light beam to impinge on a photodetector in said receiver;
  - a controller responsive to the position of the collimated light in the receiver for controlling orientation of said micromirror so that said collimated light beam is reflected onto said photodetector; and
  - a control loop coupled between said controller and said receiver for providing a control signal to said controller for controlling said micromirror orientation, said control loop being independent of said optical link.
19. (Previously Presented) The optical link in accordance with Claim 18 further comprising a circuit in said transmitter for modulating said collimated light beam in accordance with a data signal and a demodulation circuit in said receiver for recovering said data signal.
20. (Previously Presented) The optical link in accordance with Claim 18 wherein said control loop comprises a circuit for detecting the incidence of said collimated light beam on said photodetector and generating a detection signal and wherein said detection signal is said control signal coupled to said controller by said control loop.
21. (Previously Presented) The optical link in accordance with Claim 18 wherein said source generating a collimated light beam comprises a VCSEL laser diode.

22. (Previously Presented) The optical link in accordance with Claim 19 wherein said modulator circuit and demodulator circuit encode and decode data according to an Ethernet protocol format.
23. (Currently Amended) In an optical path-to-path sight link, an optical transmitter comprising:
- a source generating a collimated light beam within said transmitter, said collimated light beam having a path directed outside of said transmitter;
  - a moveable micromirror coupled in said path between said source and an exit point for said collimated light beam; and
  - a controller for controlling orientation of said micromirror so that in use in an optical link said collimated light beam is reflected by said micromirror onto a photodetector of a receiver said controller being responsive to an external signal indicative of said receiver in response to the position of the collimated light in the receiver and transmitted along a control link that is separate from said optical link and indicative of said collimated light beam impinging on said photodetector.
24. (Previously Presented) The transmitter in accordance with Claim 23, wherein said micromirror comprises a single two axis rotatable mirror capable of reflecting light in any orientation within a predetermined field of view.
25. (Previously Presented) The transmitter in accordance with Claim 23, wherein said micromirror comprises a plurality of mirrors, each capable of being rotated in a single axis, capable of reflecting light in any orientation within a predetermined field of view.
26. (Previously Presented) The transmitter in accordance with Claim 18 wherein said micromirror is fabricated from silicon.

27. (Previously Presented) The transmitter in accordance with Claim 23 wherein said micromirror is fabricated from metal.
28. (Previously Presented) The transmitter in accordance with Claim 23 further comprising a circuit for modulating said collimated light beam in accordance with a data signal.
29. (Previously Presented) The transmitter in accordance with Claim 23 wherein said source generating a collimated light beam comprises a VCSEL laser diode.